III. CLAIM AMENDMENTS

- 1. (Original) A multiple access communication system comprising:
 - master sector equipment adapted to control the overall operation of said system, and said master sector equipment comprising a master clock generator adapted to generate a master clock signal;
 - a plurality of slave sector equipment adapted to transmit and receive communications directly to and from Customer Premises Equipment (CPE) in the system;
 - for each of the slave sector equipment, a cable coupled between it and said master sector equipment for transmitting and receiving signals including said master clock signal;
 - each of the slave sector equipment comprising a programmable, multiple tap slave sector phase-locked loop (PLL) receiving at an input, said master clock signal, and allowing a "phase select" tap to be chosen so that said slave sector PLL outputs a slave sector clock signal which matches within a predefined tolerance, the phase delay of the slave sector clock signal of the slave sector equipment having the longest cable coupled thereto; and
 - nonvolatile memory adapted to store for each of the slave sector equipment, the appropriate "phase select" tap to satisfy the predefined delay matching tolerance.

- 2. (Original) The system in Claim 1, wherein said nonvolatile memory is distributed and self-contained among each of the slave sector equipment.
- 3. (Original) The system in Claim 1, wherein said slave sector PLLs are subsumed by MODEMs.
- 4. (Original) The system in Claim 1, wherein said master sector equipment further comprises a programmable, multiple tap master sector phase-locked loop (PLL) receiving at an input, said master clock signal, and allowing a "phase select" tap to be chosen so that said master sector PLL outputs a master sector clock signal which matches within a predefined tolerance, the phase delay of the slave sector clock signal of the slave sector equipment having the longest cable coupled thereto; and

said nonvolatile memory is further adapted to store the appropriate "phase select" tap of the master sector PLL, to satisfy the predefined delay matching tolerance.

- 5. (Original) The system in Claim 4, wherein said master sector PLL is subsumed by a MODEM.
- 6. (Original) The system in Claim 4, wherein said master sector equipment further comprises driver circuitry coupled at its outputs to said cables, and coupled at its inputs to said master sector PLL and said master clock generator, said driver circuitry adapted to boost signal levels.
- 7. (Currently Amended) The system in Claim 1, wherein said slave sector PLLs comprise:

- a forward path comprising a phase comparator and a voltage-controlled oscillator; and
- a feedback loop comprising clock shift circuitry, said clock shift circuitry comprising having multiple "phase select" taps.
- 8. (Original) The system in Claim 7, wherein said feedback loop further comprises a voltage-controlled oscillator frequency divider.
- 9. (Currently Amended) The system in Claim 4, wherein said master sector PLL comprises:
 - a forward path comprising a phase comparator and a voltage-controlled oscillator; and
 - a feedback loop comprising clock shift circuitry, said clock shift circuitry comprising having-multiple "phase select" taps.
- 10. (Original) The system in Claim 9, wherein said feedback loop further comprises a voltage-controlled oscillator frequency divider.
- 11. (Original) The system in Claim 1, wherein said system is adapted for synchronous Code Division Multiple Access (CDMA) communication.
- 12. (Original) In a multiple access communication system, a method of temporally aligning system equipment comprising the steps of:

- via master sector equipment, controlling the overall operation of said system, and generating via a master clock generator subsumed by said master sector equipment, a master clock signal;
- via a plurality of slave sector equipment, transmitting and receiving communications directly to and from Customer Premises Equipment (CPE) in the system;
- for each of the slave sector equipment, coupling a cable between it and said master sector equipment for transmitting and receiving signals including said master clock signal;
- wherein each of the slave sector equipment comprises a programmable, multiple tap slave sector phase-locked loop (PLL) receiving at an input, said master clock signal, and allowing a "phase select" tap to be chosen so that said slave sector PLL outputs a slave sector clock signal which matches within a predefined tolerance, the phase delay of the slave sector clock signal of the slave sector equipment having the longest cable coupled thereto; and
- via nonvolatile memory, storing for each of the slave sector equipment, the appropriate "phase select" tap to satisfy the predefined delay matching tolerance.
- 13. (Original) The method in Claim 12, further comprising the step of distributing said nonvolatile memory among each of the slave sector equipment.
- 14. (Original) The method in Claim 12, further comprising the step of subsuming said slave sector PLLs by MODEMs.

15. (Original) The method in Claim 12, further comprising the steps of:

providing said master sector equipment with a programmable, multiple tap master sector phase-locked loop (PLL) receiving at an input, said master clock signal, and allowing a "phase select" tap to be chosen so that said master sector PLL outputs a master sector clock signal which matches within a predefined tolerance, the phase delay of the slave sector clock signal of the slave sector equipment having the longest cable coupled thereto; and

via said nonvolatile memory, storing the appropriate "phase select" tap of the master sector PLL, to satisfy the predefined delay matching tolerance.

- 16. (Original) The method in Claim 15, further comprising the step of subsuming said master sector PLL by a MODEM.
- 17. (Original) The method in Claim 15, further comprising the steps of:

providing said master sector equipment with driver circuitry coupled at its outputs to said cables, and coupled at its inputs to said master sector PLL and said master clock generator; and

via said driver circuitry, boosting signal levels.

18. (Currently Amended) The method in Claim 12, further comprising the steps of:

providing for each of said slave sector PLLs, a forward path comprising a phase comparator and a voltage-controlled oscillator; and

- providing for each of said slave sector PLLs, a feedback loop comprising clock shift circuitry, said clock shift circuitry comprising having multiple "phase select" taps.
- 19. (Original) The method in Claim 18, wherein said feedback loop further comprises a voltage-controlled oscillator frequency divider.
- 20. (Currently Amended) The method in Claim 15, further comprising the steps of:
 - providing for said master sector PLL, a forward path comprising a phase comparator and a voltage-controlled oscillator; and
 - providing for said master sector PLL, a feedback loop comprising clock shift circuitry, said clock shift circuitry comprising having multiple "phase select" taps.
- 21. (Original) The method in Claim 20, wherein said feedback loop further comprises a voltage-controlled oscillator frequency divider.
- 22. (Original) The method in Claim 12, wherein said system is adapted for synchronous Code Division Multiple Access (CDMA) communication.